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ALL	800/8.ccls.	26	L8

ALL	800/8.ccls.	26	L8
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ALL	#S887	0	L6
ALL	#S888	35	L5
ALL	#S885	95	L4
ALL	#S882	0	L3
ALL	#S879	142	L2
ALL	#S878	2052	L1

L1 ANSWER 1 OF 18 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1998:769047 CAPLUS
TITLE: **Automated Cell Culture**
AUTHOR(S): Anon.
SOURCE: Science (Washington, D. C.) (1998), 282(5393), 1521
CODEN: SCIEAS; ISSN: 0036-8075
PUBLISHER: American Association for the Advancement of Science
DOCUMENT TYPE: Journal; Product Review
LANGUAGE: English
AB Unavailable

L1 ANSWER 2 OF 18 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1997:397776 CAPLUS
DOCUMENT NUMBER: 127:80213
TITLE: Production of monoclonal antibodies CB IFN 2.4 in the hollow fiber bioreactors ACUSYST-R and SACCEL
AUTHOR(S): Perez, Mayte; Valdes, Israel; Pierrat, Ricardo; Garcia, Cristina; Gonzalez, Marcos; de la Torre, Daisy; del Rosario Aleman, Maria; Valdes, Rodolfo
CORPORATE SOURCE: Genetic Engineering Biotechnology Center, Havana, Cuba
SOURCE: Biotecnol. Apl. (1997), 14(2), 106-110
CODEN: BTAPEP; ISSN: 0864-4551
PUBLISHER: Sociedad Iberolatinoamericana de Biotecnologia Aplicada a la Salud
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Monoclonal antibodies (MAbs) are produced in mice by the i.p. injection of the MAb-producing hybridoma cells. The laws for animal protection and the regulations required for the prodn. of MAbs for human use are more and more strict and have led to new techniques to obtain these mols. A new bioreactor system, the **automatic cell culture** system (Saccel) (ICID, Havana) is compared with a well known com. system, Acusyst-R (Endotronics, Minneapolis, USA). Taking into account quality, subclass, and immunopurifn. performance, no significant differences regarding the bulk harvest yield and MAb quality were obsd. when the MAb CBIFN 2.4 was produced. The medium pump rate in relation to MAb prodn. was reduced; even a 50% redn. of the culture medium consumption did not affect the specific antibody prodn. This result represents a 13% redn. of the prodn. cost per unit.

L1 ANSWER 3 OF 18 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1996:475287 CAPLUS
DOCUMENT NUMBER: 125:242008
TITLE: The C5 Unit: a semi-**automatic cell culture** device suitable for experiments under microgravity
AUTHOR(S): Vens, Conchita; Kump, Bernhard; Muenstermann, Bernd; Heinlein, Uwe A. O.
CORPORATE SOURCE: Institut fuer Genetik, Heinrich-Heine-Universitaet, Universitaetsstrasse 1, Dusseldorf, D-40225, Germany
SOURCE: J. Biotechnol. (1996), 47(2,3), 203-214
CODEN: JBITD4; ISSN: 0168-1656
DOCUMENT TYPE: Journal
LANGUAGE: English
AB This paper presents data on a novel, semi-automatic cell culturing device called 'C5 Unit' (connectable circuit cell culture chamber) which was developed and adapted to the quality and size criteria set by the characteristics of the ESA Biorack. The suitability of the hardware for culturing cells under microgravity conditions was demonstrated by successful culture of primary mouse cells from neonatal cerebellum and testis aboard the Space Shuttle during the IML-2 mission.

L1 ANSWER 4 OF 18 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1996:8529 CAPLUS
DOCUMENT NUMBER: 124:85051

TITLE: An automated system to produce cell culture media from liquid medium concentrates
AUTHOR(S): Roth, Georg; Kubiak, James M.; Long, James F.; Schoofs, Gary M.
CORPORATE SOURCE: Berlex Biosciences, Richmond, CA, 94804-0099, USA
SOURCE: BioPharm (Eugene, Oreg.) (1995), 8(9), 31-5
CODEN: BPRME5; ISSN: 1040-8304
DOCUMENT TYPE: Journal
LANGUAGE: English
AB An **automated cell culture** medium prepn. system combined with a perfusion bioreactor uses liq. medium concs. to formulate the basal medium. It is designed to add serum and other components directly in line according to the biol. requirements of a process.

L1 ANSWER 5 OF 18 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1995:359432 CAPLUS
DOCUMENT NUMBER: 122:127817
TITLE: **Automatic cell culture** quantitation with TRAKCELL: application to cell toxicology and differentiation
AUTHOR(S): Opstal, W. -Y. Xu-van; Billardon, C.; Caillaud, T.; Carvajal-Gonzalez, S.; Colliot, G.; Bisconte, J. C.; Rostene, W.
CORPORATE SOURCE: Hopital St Antoine, INSERM U.339, Paris, 75012, Fr.
SOURCE: Cell Biol. Toxicol. (1994), 10(5/6), 387-92
CODEN: CBTOE2; ISSN: 0742-2091
DOCUMENT TYPE: Journal
LANGUAGE: English
AB An automated system, TRAKCELL, was developed for the quantitation of cells in culture. It enabled cell counting, classification according to morphol. cell characteristics and measurement of cell proliferation and differentiation. The system was tested on the toxic effect of ascorbic acid on rat brain catecholaminergic neurons in primary culture. In parallel, the effects of nerve growth factor, dexamethasone and forskolin on cell differentiation were studied using rat pheochromocytoma PC12 cells. The results show that the system permits rapid and reproducible measurements of cell d. and of the morphol. changes obsd. following various drug treatments.

L1 ANSWER 6 OF 18 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1991:129009 CAPLUS
DOCUMENT NUMBER: 114:129009
TITLE: A semi-**automated cell culture** evaluation system for cytotoxicity testing of dental materials
AUTHOR(S): Schmalz, G.; Schweikl, H.
CORPORATE SOURCE: Dep. Oper. Dent. Period., Univ. Regensburg, Regensburg, 8400, Fed. Rep. Ger.
SOURCE: J. Mater. Sci.: Mater. Med. (1990), 1(4), 228-32
CODEN: JSMMEL; ISSN: 0957-4530
DOCUMENT TYPE: Journal
LANGUAGE: English
AB A rapid and quant. detn. of viable cells in the cytotoxicity testing of dental materials is desirable to evaluate large nos. of samples in a short time. For this purpose a new and semi-**automated cell culture** evaluation system was developed using the fluorogenic dye fluorescein diacetate (FDA) for vital staining and microtiter plates for culture vessels. Expts. showed that in this system the fluorescence intensity was linearly related to the cell no. from 500 to 20,000 cells/culture and that fluorescence recording was stable for between at least 1-2 h using a quencher soln. for absorbing extracellular fluorescence. The results from toxicity testing of different dental materials (2 glass ionomer cements, a phosphate cement, a composite resin, and monomeric Me methacrylate) corresponded to those derived from other, std. test methods. Because of the ease of performance, the quant., rapid

evaluation system and the small culture vessels requiring only few cells per culture, the test method presented may be an interesting alternative to other cell culture techniques for cytotoxicity testing.

L1 ANSWER 7 OF 18 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1984:31883 CAPLUS
DOCUMENT NUMBER: 100:31883
TITLE: **Automatic cell culture** apparatus
PATENT ASSIGNEE(S): Asahi Chemical Industry Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 58094385	A2	19830604	JP 1981-190661	19811130

AB PEG prepns. (30-55%, pH 8.0-8.5) are used as fusion agents for cell fusion between mammalian eukaryotic cells and mammalian cancer cells. Thus, 1 .times. 108 mouse spleen cells were mixed with 3 .times. 107 mouse myeloma cells and fused in the presence of a 45% PEG soln. (pH 8.1) at 37.degree. for 1 min and centrifuged to remove the PEG. The cell mixt. was incubated for 10 days in a HAT medium (a medium contg. calf serum, aminopterin, thymidine, and hypoxanthine). The cell fusion rate in this system was 4.6 .times. 10-3%. In contrast, little or no fusion occurred when the concn. and pH of PEG prepns. were not in the above mentioned range.

L1 ANSWER 8 OF 18 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1976:40329 CAPLUS
DOCUMENT NUMBER: 84:40329
TITLE: AUDRI, [automatic drug and reagent injector]an instrument for the automated performance of kinetic and toxicity experiments with cultured cells
AUTHOR(S): Tolmach, L. J.; Arnzen, R. J.
CORPORATE SOURCE: Sch. Med., Washington Univ., St. Louis, Mo., USA
SOURCE: Anal. Biochem. (1975), 69(1), 233-46
CODEN: ANBCA2
DOCUMENT TYPE: Journal
LANGUAGE: English
AB A device for automatic manipulation of culture dishes was developed to facilitate the execution of long-term cell culture expts. involving repetitive measurement of either cell killing or labeled precursor incorporation, or both. Solns. were added and withdrawn from 35- or 60-mm plastic culture dishes maintained under growth conditions, according to a preprogrammed schedule that could continue for an essentially indefinite period. Both fixed- and variable-vol. addn. of .ltoreq.4 different solns. could be specified; the former to a max. of 5 ml and the latter to 444 .mu.l in 3.5-.mu.l increments. Provision was made for .ltoreq.48 pairs of cultures, the dishes of each pair received identical treatment. As many as 13 different treatments could be specified for a given expt; these could be scheduled as closely as 1 min apart. The device is controlled by a minicomputer which is programmed with the exptl. protocol by means of a punched paper tape prepd. on a large computer. Some examples of its application were presented.

L1 ANSWER 9 OF 18 BIOSIS COPYRIGHT 2001 BIOSIS
ACCESSION NUMBER: 2000:130797 BIOSIS
DOCUMENT NUMBER: PREV200000130797
TITLE: Cell-culture system for continuous production of Toxoplasma gondii tachyzoites.
AUTHOR(S): Evans, R. (1); Chatterton, J. M. W.; Ashburn, D.; Joss, A. W. L.; Ho-Yen, D. O.
CORPORATE SOURCE: (1) Scottish Toxoplasma Reference Laboratory, Microbiology

Department, Raigmore Hospital, Highland Acute Hospitals NHS Trust, Old Perth Road, Inverness, IV2 3 UJ UK
SOURCE: European Journal of Clinical Microbiology & Infectious Diseases., (Dec., 1999) Vol. 18, No. 12, pp. 879-884. ISSN: 0934-9723.
DOCUMENT TYPE: Article
LANGUAGE: English
SUMMARY LANGUAGE: English
AB The aim of this study was to identify a sustainable cell line and culture method that could continuously provide a sufficient quantity of Toxoplasma gondii tachyzoites to serve the needs of a general hospital laboratory. Three continuous cell lines (HeLa, LLC and Vero) and three cell-culture methods (culture in conventional flasks, culture in membrane-based flasks and an automated culture system) were investigated. In multiplicity-of-infection and time-course experiments, HeLa was the cell line of choice. Harvests from HeLa cells had significantly higher tachyzoite yields than those from LLC cells ($P < 0.00005$) or Vero cells ($P < 0.05$). Membrane-based flasks gave higher yields (6.15 X 106 tachyzoites/ml) than conventional flasks (1-2 X 106 tachyzoites/ml) initially, but these were not sustained. The **automated cell-culture** system was unsuitable for parasite culture. Continuous passage in 25 cm2 flasks was successful, yielding 1 X 106 tachyzoites/ml; viability exceeded 90% after 96-120 h of infection throughout 38 passes, during which time the viability improved and the time to harvest became more consistent. Toxoplasma gondii grown in continuous culture in HeLa cells can provide a regular supply of viable tachyzoites. Demonstration that HeLa-derived tachyzoites could be used for the dye test confirms the potential of this in vitro system for use in general hospital laboratories.

L1 ANSWER 10 OF 18 BIOSIS COPYRIGHT 2001 BIOSIS
ACCESSION NUMBER: 1996:470830 BIOSIS
DOCUMENT NUMBER: PREV199699193186
TITLE: The C5 unit: A semi-**automatic cell culture** device suitable for experiments under microgravity.
AUTHOR(S): Vens, Conchita; Kump, Bernhard; Muenstermann, Bernd; Heinlein, Uwe A. O. (1)
CORPORATE SOURCE: (1) Inst. Genetik, Heinrich-Heine-Univ., Universitaetsstrasse 1, D-40225 Duesseldorf Germany
SOURCE: Journal of Biotechnology, (1996) Vol. 47, No. 2-3, pp. 203-214. ISSN: 0168-1656.
DOCUMENT TYPE: Article
LANGUAGE: English
AB This paper presents data on a novel, semi-automatic cell culturing device called 'C5 Unit' (connectable circuit cell culture chamber) which was developed and adapted to the quality and size criteria set by the characteristics of the ESA Biorack. The suitability of the hardware for culturing cells under microgravity conditions was demonstrated by successful culture of primary mouse cells from neonatal cerebellum and testis aboard the Space Shuttle during the IML-2 mission.

L1 ANSWER 11 OF 18 BIOSIS COPYRIGHT 2001 BIOSIS
ACCESSION NUMBER: 1996:241540 BIOSIS
DOCUMENT NUMBER: PREV199698789669
TITLE: High density and large scale culture of suspension type of cells from insects.
AUTHOR(S): Imanish, Shigeo; Tomita, Shuichiro; Nakao, Hajime
CORPORATE SOURCE: Natl. Inst. Entomological Sericultural Sci., 1-2 Ohwashi, Tsukuba, Ibaraki 305 Japan
SOURCE: Journal of Sericultural Science of Japan, (1996) Vol. 65, No. 1, pp. 7-12. ISSN: 0037-2455.
DOCUMENT TYPE: Article
LANGUAGE: Japanese

SUMMARY LANGUAGE: Japanese; English

AB Large scale suspension cultures of SES-BoMo-15A, SES-MaBr-1 and SES-MaBr-4 cell lines at high densities in roller bottles or spinner flasks are performed using newly developed media, MM-SFM8 and MM-SFM8P. The maintenance of pH at a constant value was very effective to support higher cell densities. The cell density in conventional spinner flasks increased from 5 times 10-5 to 12.1 times 10-5 cells/ml in 500 ml culture medium. When an **automatic cell culture** apparatus, in which the medium O-2 concentration is controlled, fresh medium is continuously supplied and waste is withdrawn to be kept free of cell debris by filtration through a ceramic filter, was used to culture cells in a large scale and at a high density. Thus the cell numbers increased from 1.0 times 10-6 to 3.2 times 10-6 cells/ml in a 500-ml culture.

L1 ANSWER 12 OF 18 BIOSIS COPYRIGHT 2001 BIOSIS

ACCESSION NUMBER: 1995:136863 BIOSIS

DOCUMENT NUMBER: PREV199598151163

TITLE: **Automatic cell culture** quantitation with TRAKCELL: Application to cell toxicology and differentiation.

AUTHOR(S): Xu-Van Opstal, W.-Y.; Billardon, C.; Caillaud, T.; Carvajal-Gonzalez, S.; Colliot, G.; Bisconte, J.-C.; Rostene, W. (1)

CORPORATE SOURCE: (1) INSERM U 339, Hopital St. Antoine, 184 Rue Fg St. Antoine, 75012 Paris France

SOURCE: Cell Biology and Toxicology, (1994) Vol. 10, No. 5-6, pp. 387-392.
Meeting Info.: 4th Meeting of the French Society of Cellular Pharmacotoxicology Paris, France March 16-18, 1994
ISSN: 0742-2091.

DOCUMENT TYPE: Conference

LANGUAGE: English

L1 ANSWER 13 OF 18 BIOSIS COPYRIGHT 2001 BIOSIS

ACCESSION NUMBER: 1994:443975 BIOSIS

DOCUMENT NUMBER: PREV199497456975

TITLE: Space shuttle flight (STS-45) of L8 myoblast cells results in the isolation of a nonfusing cell line variant.

AUTHOR(S): Kulesh, David A. (1); Anderson, Loraine H.; Wilson, Bernard; Otis, Ericka J.; Elgin, Diane M.; Barker, Michael J.; Mehm, William J.; Kearney, George P.

CORPORATE SOURCE: (1) Div. Altitude and Hyperbaric Physiol., Armed Forces Inst. Pathol., Washington, DC 20306-6000 USA

SOURCE: Journal of Cellular Biochemistry, (1994) Vol. 55, No. 4, pp. 530-544.
ISSN: 0730-2312.

DOCUMENT TYPE: Article

LANGUAGE: English

AB Myoblast cell cultures have been widely employed in conventional (1g) studies of biological processes because characteristics of intact muscle can be readily observed in these cultured cells. We decided to investigate the effects of spaceflight on muscle by utilizing a well characterized myoblast cell line (L8 rat myoblasts) as cultured in the recently designed Space Tissue Loss Flight Module "A" (STL-A). The STL-A is a "state of the art," compact, fully contained, **automated cell culture** apparatus which replaces a single mid-deck locker on the Space Shuttle. The L8 cells were successfully flown in the STL-A on the Space Shuttle STS-45 mission. Upon return to earth, reculturing of these spaceflown L8 cells (L8SF) resulted in their unexpected failure to fuse and differentiate into myotubes. This inability of the L8SF cells to fuse was found to be a permanent phenotypic alteration. Scanning electron microscopic examination of L8SF cells growing at 1g on fibronectin-coated polypropylene fibers exhibited a strikingly different morphology as compared to control cells. In addition to their failure to fuse into myotubes, L8SF cells also piled up on top of each other. When assayed in fusion-promoting soft agar, L8SF cells gave rise to substantially more and

larger colonies than did either preflight (L8AT) or ground control (L8GC) cells. All data to this point indicate that flying L8 rat myoblasts on the Space Shuttle for a duration of 7-10 d at subconfluent densities results in several permanent phenotypic alterations in these cells.

L1 ANSWER 14 OF 18 BIOSIS COPYRIGHT 2001 BIOSIS
ACCESSION NUMBER: 1994:335414 BIOSIS
DOCUMENT NUMBER: PREV199497348414
TITLE: **Automated cell culture** systems for the space shuttle.
AUTHOR(S): Wiesmann, W. P.; Pranger, L. A.; Delaplaine, E. S.; Cannon, T. C.
CORPORATE SOURCE: Walter Reed Army Inst. Res., Washington, DC 20307 USA
SOURCE: In Vitro Cellular & Developmental Biology Animal, (1994) Vol. 30A, No. 3 PART 2, pp. 47.
Meeting Info.: Meeting of the Tissue Culture Association on Regulation of Cell and Tissue Differentiation Research Triangle Park, North Carolina, USA June 4-7, 1994
ISSN: 1071-2690.
DOCUMENT TYPE: Article
LANGUAGE: English

L1 ANSWER 15 OF 18 BIOSIS COPYRIGHT 2001 BIOSIS
ACCESSION NUMBER: 1989:415756 BIOSIS
DOCUMENT NUMBER: BR37:71219
TITLE: AN **AUTOMATIC CELL CULTURE** EVALUATION SYSTEM FOR DENTAL MATERIALS.
AUTHOR(S): SCHMALZ G; SCHWEIKL H
CORPORATE SOURCE: UNIV. REGENSBURG, WEST GERMANY.
SOURCE: 67TH GENERAL SESSION OF THE INTERNATIONAL ASSOCIATION FOR DENTAL RESEARCH (IADR), 6TH MEETING OF THE IADR IRISH DIVISION, 72ND ANNUAL MEETING OF THE SCANDINAVIAN ASSOCIATION FOR DENTAL RESEARCH AND THE 26TH ANNUAL MEETING OF THE CONTINENTAL EUROPEAN DIVISION OF THE IADR, DUBLIN, IRELAND, JUNE 28-JULY 1, 1989. J DENT RES, (1989) 68 (SPEC ISSUE JUNE), 909.
CODEN: JDREAF. ISSN: 0022-0345.
DOCUMENT TYPE: Conference
FILE SEGMENT: BR; OLD
LANGUAGE: English

L1 ANSWER 16 OF 18 BIOSIS COPYRIGHT 2001 BIOSIS
ACCESSION NUMBER: 1988:387335 BIOSIS
DOCUMENT NUMBER: BR35:61263
TITLE: RAPID QUANTITATIVE SCREENING OF SOMATIC PLANT EMBRYOS BY IMAGE ANALYSIS.
AUTHOR(S): CAZZULINO D; PEDERSEN H; CHIN C-K
CORPORATE SOURCE: CHEMICAL AND BIOCHEMICAL ENG. DEP., RUTGERS UNIV., P.O. BOX 909, NEW BRUNSWICK, NJ 08901.
SOURCE: THIRD CHEMICAL CONGRESS OF NORTH AMERICA HELD AT THE 195TH AMERICAN CHEMICAL SOCIETY MEETING, TORONTO, ONTARIO, CANADA, JUNE 5-10, 1988. ABSTR PAP CHEM CONGR NORTH AM, (1988) 3 (2), MBTD 31.
CODEN: ABPAEK.
DOCUMENT TYPE: Conference
FILE SEGMENT: BR; OLD
LANGUAGE: English

L1 ANSWER 17 OF 18 BIOSIS COPYRIGHT 2001 BIOSIS
ACCESSION NUMBER: 1985:94632 BIOSIS
DOCUMENT NUMBER: BR28:94632
TITLE: **AUTOMATED CELL CULTURE** SYSTEM.
AUTHOR(S): NOLL L
CORPORATE SOURCE: RES. DEV., KC BIOL. INC.
SOURCE: Am. Biotechnol. Lab., (1984) 2 (2), 70-72.

CODEN: ABLAEY.
FILE SEGMENT: BR; OLD
LANGUAGE: English

L1 ANSWER 18 OF 18 CONFSCI COPYRIGHT 2001 CSA
ACCESSION NUMBER: 1999:53608 CONFSCI
DOCUMENT NUMBER: 99-066102
TITLE: **Automated cell culture,**
imaging, robotics, fluidics
AUTHOR: Bahnson, A.B.
CORPORATE SOURCE: Automated Cell Technologies
SOURCE: Cambridge Healthtech Institute, 1037 Chestnut Street, Newton Upper Falls, MA 02464, USA; phone: 617-630-1300; fax: 617-630-1325; email: chi@healthtech.com; URL: http://www.healthtech.com, Abstracts available. Price $195 + S & H..
Meeting Info.: 992 5018: High Throughput Technologies (9925018). Washington, DC (USA). 3-5 May 1999. AXYS Pharmaceuticals, Chemical Computing Group, Tripos.
DOCUMENT TYPE: Conference
FILE SEGMENT: DCCP
LANGUAGE: English

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L2 ANSWER 5 OF 5 USPATFULL

ACCESSION NUMBER: 95:52255 USPATFULL

TITLE: **Automated cell culture** and testing system

INVENTOR(S): Kearney, George P., 19237 Gunnerfield La., Germantown, MD, United States 20874

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 5424209		19950613	
APPLICATION INFO.:	US 1993-34542		19930319	(8)

DOCUMENT TYPE: Utility

FILE SEGMENT: Granted

PRIMARY EXAMINER: Beisner, William H.

LEGAL REPRESENTATIVE: Spiegel, H. Jay

NUMBER OF CLAIMS: 16

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 18 Drawing Figure(s); 18 Drawing Page(s)

LINE COUNT: 1312

AB A cell culture and testing system provides a completely self-contained environment in which living tissues may be placed and where living tissues may be nutrified, oxygenated and maintained within a range of temperatures within which life may be sustained. The system includes aspects permitting administering of drugs or other substances to living tissues and monitoring of results accruing from such administration. In the preferred embodiment, the system is completely self-contained and sealed and may be operated both through use of an external power supply and an internal back-up power supply. The system is maintained at a positive pressure slightly above atmospheric pressure to prevent contamination from the surrounding environment. The system includes at least three levels of containment to completely isolate living tissues from ambient surroundings and the system has been successfully tested under conditions of zero gravity.